

	Type	Hits	Search Text	DBs	Time Stamp
1	BRS	1	(kim adj dong kyu.in.) and "20020126618"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/05 10:16
2	BRS	369	370/208.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/05 12:10
3	BRS	1791	370/503.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/05 12:11
4	BRS	1067	375/362.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/05 12:11
5	BRS	5104	tim\$3 with frequency with offset	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/05 12:12
6	BRS	736	(tim\$3 with frequency with offset) with estimat\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/05 12:12
7	BRS	2	((tim\$3 with frequency with offset) with estimat\$3) and 370/208.ccls. and 370/503.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/06 17:37
8	BRS	29	((tim\$3 with frequency with offset) with estimat\$3) and 370/208.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/05 12:13
9	BRS	14	((tim\$3 with frequency with offset) with estimat\$3) and 370/503.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/05 12:14
10	BRS	16	((tim\$3 with frequency with offset) with estimat\$3) and 375/362.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/05 12:14
11	BRS	3	OFDM and (analytic near tone)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/05 15:46
12	BRS	10107	frequency near offset	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/05 15:50
13	BRS	58	slid\$3 near window near correlat\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/05 15:54
14	BRS	2	((frequency near offset) and (analytic near (tone strength magnitude power signal))) and (slid\$3 near window near correlat\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/05 16:47
15	BRS	3	orthogonal and "057,310"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/05 16:51
16	BRS	55	(frequency near offset) and (analytic near (tone strength magnitude power signal))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/05 17:00
17	BRS	47	(frequency near offset) and (analytic near (tone strength magnitude power signal)) and @ad<20001229	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/05 18:05

	Type	Hits	Search Text	DBs	Time Stamp
18	BRS	26	sliding adj1 window and correlat\$3 and ofdm	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/06 10:29
19	BRS	72	sliding adj1 window and correlat\$3 and frequency adj1 offset	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/06 10:30
20	BRS	12	(sliding adj1 window and correlat\$3 and frequency adj1 offset) and ofdm	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/06 10:30
21	BRS	24	(sliding adj1 window and correlat\$3 and frequency adj1 offset) and timing adj1 offset	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/06 10:32
22	BRS	2	((sliding adj1 window and correlat\$3 and frequency adj1 offset) and timing adj1 offset) and @ad<20001229	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/06 11:07
23	BRS	30	((sliding adj1 window and correlat\$3 and frequency adj1 offset) and @ad<20001229	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/06 10:58
24	BRS	5	((sliding adj1 window and correlat\$3 and ofdm) and @ad<20001229	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/06 10:58
25	BRS	2	((sliding adj1 window and correlat\$3 and frequency adj1 offset) and ofdm) and @ad<20001229	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/06 11:06
26	BRS	200	timing near frequency near offset	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/06 16:07
27	BRS	6	(timing near frequency near offset) and (sliding near window) and (frequency near offset)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/06 16:06
28	IS&R	2	("5241688").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/06 15:50
29	IS&R	2	("6356608").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/06 15:50
30	BRS	2025	(pilot analytic)adj tone	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/06 15:54
31	BRS	25	((pilot analytic)adj tone) and (timing near frequency near offset)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/06 15:54
32	BRS	16	((pilot analytic)adj tone) and (timing near frequency near offset)) and @ad<20001229	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/06 16:08
33	BRS	1	(timing near frequency near offset and (sliding near window)) and @ad<20001229	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/06 16:36

	Type	Hits	Search Text	DBs	Time Stamp
34	BRS	6009	sliding adj window	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/06 16:37
35	BRS	39	(sliding adj window) and frequency adj1 offset with estimat\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/06 16:38
36	BRS	4	((sliding adj window) and frequency adj1 offset with estimat\$3) and @ad<20001229	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/06 16:38
37	BRS	6	timing near frequency near offset and (sliding near window)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/06 17:11
38	BRS	6009	sliding adj window) (delay near conjugate near mixer	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/06 17:39
39	BRS	108	(sliding adj window) (delay near conjugate near mixer) and (frequency near offset)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/06 17:39
40	BRS	57	((sliding adj window) (delay near conjugate near mixer) and (frequency near offset)) and @ad>20001229	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/06 17:41
41	BRS	8	((sliding adj window) (delay near conjugate near mixer) and (frequency near offset)) and @ad>20001229) and ((pilot analytic) near (tone amplitude strength signal power))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/06 17:41
42	BRS	50	((sliding adj window) (delay near conjugate near mixer) and (frequency near offset)) and @ad<20001229	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/06 17:52
43	BRS	3	((sliding adj window) (delay near conjugate near mixer) and (frequency near offset)) and @ad<20001229) and ((pilot analytic) near (tone amplitude strength signal power))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/06 17:49
44	BRS	0	((sliding adj window) (delay near conjugate near mixer) and (frequency near offset)) and @ad<20001229) and ((pilot analytic) near (tone amplitude strength signal power))) and (reference near symbol)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/06 17:50
45	BRS	7	((sliding adj window) (delay near conjugate near mixer) and (frequency near offset)) and (reference near symbol)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/06 18:04

	Type	Hits	Search Text	DBs	Time Stamp
46	BRS	1	((sliding adj window) (delay near conjugate near mixer) and (frequency near offset)) and (reference near symbol)) and @ad<20001229	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/06 17:52
47	BRS	364	ofdm and timing and frequency near offset	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/07 09:33
48	BRS	163	(ofdm and timing and frequency near offset) and ((analytic pilot (training adj symbol)) near (tone signal amplitude))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/07 09:36
49	BRS	112	((ofdm and timing and frequency near offset) and ((analytic pilot (training adj symbol)) near (tone signal amplitude))) and correlation	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/07 09:36
50	BRS	101	((ofdm and timing and frequency near offset) and ((analytic pilot (training adj symbol)) near (tone signal amplitude))) and correlation) and synchronizat\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/07 09:37
51	BRS	72	((((ofdm and timing and frequency near offset) and ((analytic pilot (training adj symbol)) near (tone signal amplitude))) and correlation) and synchronizat\$3) and (ifft (inverse adj fast adj fourier adj transform))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/07 09:38
52	BRS	43	(((((ofdm and timing and frequency near offset) and ((analytic pilot (training adj symbol)) near (tone signal amplitude))) and correlation) and synchronizat\$3) and (ifft (inverse adj fast adj fourier adj transform))) and @ad<20001229	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/07 09:38
53	BRS	43	(((((ofdm and timing and frequency near offset) and ((analytic pilot (training adj symbol)) near (tone signal amplitude))) and correlation) and synchronizat\$3) and (ifft (inverse adj fast adj fourier adj transform))) and @ad<20001229) and estimat\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/07 09:39

	Type	Hits	Search Text	DBs	Time Stamp
54	BRS	43	((((((ofdm and timing and frequency near offset) and ((analytic pilot (training adj symbol)) near (tone signal amplitude))) and correlation) and synchronizat\$3) and (ifft (inverse adj fast adj fourier adj transform))) and @ad<20001229) and estimat\$3) and \$4carrier	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/07 09:41
55	BRS	1	((((((ofdm and timing and frequency near offset) and ((analytic pilot (training adj symbol)) near (tone signal amplitude))) and correlation) and synchronizat\$3) and (ifft (inverse adj fast adj fourier adj transform))) and @ad<20001229) and estimat\$3) and \$4carrier) and orthogonal) and (reference near symbol)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/07 09:42
56	BRS	1	((((((ofdm and timing and frequency near offset) and ((analytic pilot (training adj symbol)) near (tone signal amplitude))) and correlation) and synchronizat\$3) and (ifft (inverse adj fast adj fourier adj transform))) and @ad<20001229) and estimat\$3) and \$4carrier) and orthogonal) and (sliding with window)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/07 09:48
57	BRS	1	((((((ofdm and timing and frequency near offset) and ((analytic pilot (training adj symbol)) near (tone signal amplitude))) and correlation) and synchronizat\$3) and (ifft (inverse adj fast adj fourier adj transform))) and @ad<20001229) and estimat\$3) and \$4carrier) and orthogonal) and (sliding same window)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/07 09:47

	Type	Hits	Search Text	DBs	Time Stamp
58	BRS	1	((((((((ofdm and timing and frequency near offset) and ((analytic pilot (training adj symbol)) near (tone signal amplitude))) and correlation) and synchronizat\$3) and (ifft (inverse adj fast adj fourier adj transform))) and @ad<20001229) and estimat\$3) and \$4carrier) and orthogonal) and (slid\$3 same window)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/07 09:48
59	BRS	1	((((ofdm and timing and frequency near offset) and ((analytic pilot (training adj symbol)) near (tone signal amplitude))) and correlation) and synchronizat\$3) and (sliding with window) and @ad<20001229	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/07 09:50
60	BRS	1	((ofdm and timing and frequency near offset) and ((analytic pilot (training adj symbol)) near (tone signal amplitude))) and correlation) and (sliding with window) and @ad<20001229	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/07 09:50
61	BRS	2	(ofdm and timing and frequency near offset) and (sliding with window) and @ad<20001229	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/07 09:50
62	BRS	2	((ofdm and timing and frequency near offset) and ((analytic pilot (training adj symbol)) near (tone signal amplitude))) and (sliding with window) and @ad<20001229	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/07 09:56
63	BRS	41	((((((ofdm and timing and frequency near offset) and ((analytic pilot (training adj symbol)) near (tone signal amplitude))) and correlation) and synchronizat\$3) and (ifft (inverse adj fast adj fourier adj transform))) and @ad<20001229) and estimat\$3) and \$4carrier) and orthogonal	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/07 09:57

	Type	Hits	Search Text	DBs	Time Stamp
64	BRS	31	((((((((ofdm and timing and frequency near offset) and ((analytic pilot (training adj symbol)) near (tone signal amplitude))) and correlation) and synchronizat\$3) and (ifft (inverse adj fast adj fourier adj transform))) and @ad<20001229) and estimat\$3) and \$4carrier) and orthogonal) and window	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/07 10:06

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(54)【発明の名称】 OFDMシステムに適用される周波数オフセット推定システム及びその方法

(57)【要約】

【課題】 周波数同期過程において概略同期の必要性を除去し、周波数オフセット推定値を計算するために求められる数学的な計算を単純化するためのシステム及び方法を提供する。

【解決手段】 直交周波数分割多重(OFDM)システムにおいて周波数オフセットを推定するためのシステムは、訓練シンボルに応ずる入力を受信し、ウィンドウを移動しつつ相関和を発するスライディングウィンドウ相関和計算機及び該スライディングウィンドウ相関和計算機に接続され、前記スライディングウィンドウ相関和を受信し、タイミングオフセット推定値による周波数オフセット推定値を計算する周波数オフセット推定器を備え、ここで前記訓練シンボルは前記訓練シンボルのただ一つのサブチャンネルに置かれた解析音を備える。

